

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

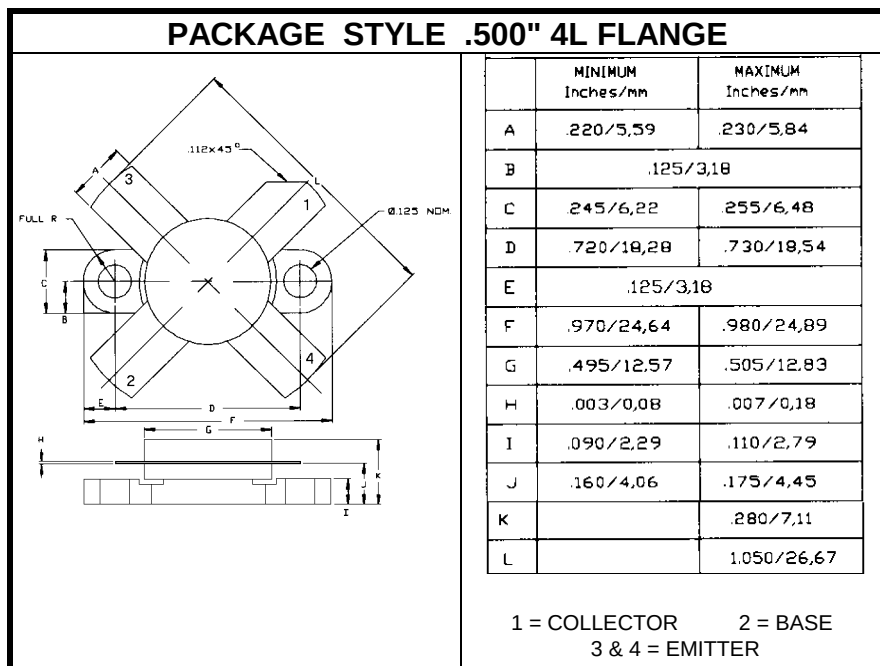
The **ASI MRF454** is Designed for 12.5 Volt Power Amplifier Applications up to 30 MHz.

FEATURES INCLUDE:

- Replacement for **SD1405**
- $P_G = 12$ dB Min. @ 30MHz & 80W
- Withstands **20:1 Load VSWR**

MAXIMUM RATINGS

I_C	20 A
V_{CB}	45 V
V_{CE}	25 V
V_{EB}	4.0 V
P_{DISS}	250 W @ $T_C = 25^\circ C$
T_J	$-65^\circ C$ to $+200^\circ C$
T_{STG}	$-65^\circ C$ to $+150^\circ C$
θ_{JC}	$0.7^\circ C/W$



CHARACTERISTICS $T_C = 25^\circ C$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CES}	$I_C = 50$ mA	36			V
BV_{CEO}	$I_C = 100$ mA	18			V
BV_{EBO}	$I_E = 10$ mA	4.0			V
I_{CES}	$V_{CE} = 15$ V			15	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 5.0$ A	40		150	---
C_{OB}	$V_{CB} = 15$ V $f = 1.0$ MHz		250		pF
G_{PE}	$V_{CC} = 15$ V $f = 30.000$ & 30.001 MHz	12			dB
η_C	$P_{OUT} = 80$ W(PEP)	50			%